

## ABSTRACT:

The invention relates to a high-pressure discharge lamp with a substantially elongate bulb which has two neck regions and a vacuumtight discharge chamber in a central position. The invention further relates to a reflector lamp and a projection system comprising such a high-pressure discharge lamp. A disadvantage of known lamps is formed by the too high temperatures of critical components. According to the invention, therefore, it is suggested that the high-pressure discharge lamp is provided at least partly with a reflection layer at least in a neck region. The reflection layer reflects radiation in the entire spectrum (ultraviolet, visible, infrared) and is used in particular as a heat shield layer which reflects the radiation incident on the neck region at the lamp end and acting as heat radiation, so that an additional heating is prevented or at least reduced.

Fig. 1